

## TP33828 SPRING

*APPARATUS AFFECTED:* All 28-Type Typing Units.

*OBJECT:* To utilize the same vertical positioning lock lever springs on 28-type typing units that are used on 35-type units.

*CHANGE:* The TP76379 vertical positioning lock lever springs are changed to TP33828 springs. The *Vertical Positioning Lock Lever Spring Tension* requirement as shown in Bulletin 217B, page 1-42, change 4, and Section 573-115-700, par. 2.18, is changed from Min 2 oz, Max 4 oz to Min 5 oz, Max 8 oz.

For location of parts, see Bulletin 1149B, pages 3-15 and 3-17, change 9.

*IDENTIFICATION:*

The TP76379 spring has 40 turns of 0.016 inch wire. It is 0.946 inch long and the OD is 0.153 inch.

The TP33828 spring has 42 turns of 0.020 inch wire. It is 1.188 inch long and the OD is 0.180 inch.

*INTERCHANGEABILITY:* Old and new style springs are not individually interchangeable but are interchangeable in sets of two for the right and left side linkage mechanisms. New style springs should not be replaced by old style springs.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change is now in effect.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be used for other applications.

*APPLICATION TO APPARATUS IN THE FIELD:* Where desired, the new style springs may be incorporated.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* All units shall be equipped with new style springs and the new adjustment applied.

## **TP163146 MODIFICATION KIT AND TP90790 FLAT WASHERS**

*APPARATUS AFFECTED:* 28L, 28S, 28T, 28Y, 28AA, 28AF, 28AK, 28AL, 28LB, 28LC, 28LD, 28LE, 28LF Typing Units.

*OBJECT:* To increase the margin of the universal contact bracket adjustment.

*CHANGE:* Two TP90790 flat washers are added between the TP163158 universal contact bracket and the TP153299 left-hand stuntbox bracket.

For location of parts, see Bulletin 1149B, page 3-93, change 11, and Specification 5804S.

*IDENTIFICATION:* See "CHANGE".

*INTERCHANGEABILITY:* Not affected.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change is now in effect.

*W.E.CO. STOCK OF OLD STYLE PARTS:* Not affected.

*APPLICATION TO APPARATUS IN THE FIELD:* Old style parts giving satisfactory service need not be changed. If units are associated with 83B2 switching systems, the addition of the washers will facilitate the adjustment of the universal contacts.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* All units shall be equipped with TP90790 washers.

## **TP90504 FELT WASHERS**

*APPARATUS AFFECTED:* All 28-Type Typing Units and Sequence Selector Units. All 35-Type Typing Units.

*OBJECT:* To improve the lubrication of the TP153294 cams on the stripper bail drive shaft.

*CHANGE:* The four TP4586 felt washers on the stripper bail drive shaft are to be replaced by six TP90504 felt washers. Three each are installed over the TP153294 cams close to the TP153301 drive arms.

For location of parts, see Bulletin 1149B, page 3-47, change 11; Bulletin 1160B, page 2-10, change 1; and Bulletin 1187B, page 4-29, change 1.

*IDENTIFICATION:* The TP4586 washer is 9/16 inch in diameter with a 3/16 inch hole. The TP90504 washer is 9/16 inch in diameter with a 3/8 inch hole.

*INTERCHANGEABILITY:* Not affected.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be made as soon as manufacturing conditions permit. This is expected to be about October, 1964.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be used for other applications.

*APPLICATION TO APPARATUS IN THE FIELD:* Units giving satisfactory service need not be changed.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* All units shall be equipped with the new style washers.

## **TP160489 STOP PLATE**

*APPARATUS AFFECTED:* TP154760 through TP154769 and TP192706 Modification Kits used on 28- and 35-Type Typing Units.

*OBJECT:* To prevent interference between the TP160489 stop plate and the TP153196 hand wheel when the TP154760 modification kit is used for form lengths of 2, 4 or 8 inches.

*CHANGE:* The TP160489 stop plate is modified by removing a 45 degree by 0.109 portion of the interfering corner of the stop plate. For location of parts, see Bulletin 1149B, page 3-78, change 9; Bulletin 1187B, page 4-10, change 1; and Spec. 50,004S.

*IDENTIFICATION:* See "CHANGE".

*INTERCHANGEABILITY:* New and old style stop plates are fully interchangeable except in the TP154760 modification kit where only the new style stops should be used.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change is now in effect.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be used for other applications.

*APPLICATION TO APPARATUS IN THE FIELD:* The new style stop plates should be used when a TP154760 modification kit is provided for form lengths of 2, 4 or 8 inches.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* The new style stop plates shall be used when a TP154760 modification kit is provided for form lengths of 2, 4 or 8 inches.

**TP304740 PRINT HAMMER ASSEMBLY**

*APPARATUS AFFECTED:* All 28- and 35-Type Typing Units.

*OBJECT:* To prevent breakage of the TP112633 print hammer springs.

*CHANGE:* The old style TP150061 print hammer, TP112633 print hammer spring and TP93729 wick are to be replaced by a new style TP304740 print hammer assembly. The assembly consists of a TP304362 hammer, a TP304363 spring and a TP131318 wick but these parts are not available as components.

For location of parts, see Bulletin 1149B, page 3-41, change 9, and Bulletin 1187B, page 4-27.

*IDENTIFICATION:* The old style spring hooks into a spring eye on the print hammer. The new style spring is screwed on a threaded stud on the print hammer.

*INTERCHANGEABILITY:* New and old style parts are not individually interchangeable but are interchangeable as assemblies.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be made as soon as manufacturing conditions permit. This is expected to be about 1/1/65.

*W.E.CO. STOCK OF OLD STYLE PARTS:* Should not be used after new style print hammer assemblies are available from Teletype.

*APPLICATION TO APPARATUS IN THE FIELD:* Where desired, the new style assemblies may be incorporated.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* All units shall be equipped with new style print hammer assemblies as soon as the assemblies are available from Teletype.

## **28AM, 28AT, 28AU TYPING UNITS**

*APPARATUS AFFECTED:* 28AM, 28AT, 28AU Typing Units.

*OBJECT:* To reduce costs by omitting features which are not required at receiving only stations in the 83B3 Teletypewriter Selective Calling System.

*CHANGE:* The TP154741 modification kit (5827S) and the TP154727 modification kit (5839S) which provide auxiliary terminal blocks for terminals 41-80, the cable assembly, connectors, and connector mounting arrangements are to be omitted.

For location of parts see Bulletin 1149B, page 5-10, change 11 and page 3-74, change 9.

*IDENTIFICATION:* See "CHANGE".

*INTERCHANGEABILITY:* New and old style typing units are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be made as soon as manufacturing conditions permit.

*W.E.CO. STOCK OF OLD STYLE PARTS:* Not affected.

*APPLICATION TO APPARATUS IN THE FIELD:* There is no advantage in using the new style units.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* New or old style units may be furnished.

## TP192566 AND TP192567 SHIFT SLIDE DRIVE LINKS

*APPARATUS AFFECTED:* All 28 Typing Units, TP173881 Modification Kit.

*OBJECT:* To prevent bounce of the No. 3 codebar when shifting from "Letters" to "Figures" or "Figures" to "Letters" and reduce the possibility of an error being transferred to the code reading contacts where the TP173881 modification kit (50.069S) is used.

*CHANGE:* The old style TP153331 and TP153332 shift slide drive links are to be replaced by new style TP192566 and TP192567 links now used on the 35 typing unit. The new style links will be included in the TP173881 modification kit.

When the new style parts are used the *Horizontal Positioning Drive Linkage Adjustment* as shown in Bulletin 217B, page 1-48, change 5, and 573-115-700, paragraph 2.24 is changed from Min 0.015 Max 0.040 inch to Min 0.090 Max 0.110 inch (which is shown in Section 574-220-700, Issue 5, paragraph 2.33 for 35 typing units).

For location of parts see Bulletin 1149B, page 3-29, change 9 and Bulletin 1187B, page 4-21, change 1.

*IDENTIFICATION:* The vertical links (TP192574) of new style drive link assemblies (lower end fastens to TP150263 bail) are symmetrical and the edges between the rivet holes are parallel. On old style assemblies the edges are not parallel and one edge has a projection adjacent to the drive link hub when the Typing Unit is in the stop condition.

*INTERCHANGEABILITY:* New and old style links are interchangeable but the appropriate adjustments must be used.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be made as soon as manufacturing conditions permit. The changes in the modification kit are now in effect. The changes in the typing unit are expected to be made about 1/65.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be used for units not equipped with code reading contacts.

*APPLICATION TO APPARATUS IN THE FIELD:* Units equipped with the TP173881 modification kit should have the new style links installed.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* All units equipped with the TP173881 modification kit shall be equipped with the new style links as soon as the parts can be obtained from Teletype. Units not equipped with code reading contacts may be equipped with new or old style links.

**TP72254 WASHER AND TP157508 MODIFICATION KIT**

*APPARATUS AFFECTED:* All 28-Type Typing Units. All 35-Type Typing Units.

*OBJECT:* To facilitate manufacture.

*CHANGE:* The TP155042 trip shaft support bracket is to be removed. Since it is only used as a spacer when the TP157508 modification kit is provided, a TP72254 washer (.140 x .375 x .065) is to be included in the TP157508 modification kit to replace it.

For location of parts, see Bulletin 1149, page 3-8, change 9; Bulletin 1187B, page 4-6, change 1; and page 4-11; and Spec. 5864S.

*IDENTIFICATION:* See "CHANGE."

*INTERCHANGEABILITY:* New and old style units are interchangeable. Old style modification kits require the use of the TP72254 spacer washer.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change will be made as soon as manufacturing conditions permit.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be used.

*APPLICATION TO APPARATUS IN THE FIELD:* There is no advantage in removing the TP155042 bracket.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* Units may be equipped with new or old style parts.



## **TP195109 STOP PLATE**

*APPARATUS AFFECTED:* All 28- and 35-Type Typing Units equipped with TP195109 Stop Plates. (Used on TP153322 Guide to reduce wear caused by function levers.)

*OBJECT:* To prevent jamming and breakage of TP153598 and TP153604 function pawls on units equipped with TP195109 stop plates.

*CHANGE:* The TP195109 stop plate is to be changed by increasing the depth of the slots from 0.338 inch to 0.388 inch and increasing the overall width of the plate from 0.468 inch to 0.531 inch.

For location of associated parts, see Bulletins 1149B, page 3-49, change 11, and 1187B, page 4-30, change 1.

*IDENTIFICATION:* See "CHANGE."

*INTERCHANGEABILITY:* New and old style stop plates are not fully interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be made as soon as manufacturing conditions permit. This is expected to be about April, 1965.

*W.E.CO. STOCK OF OLD STYLE PARTS:* Shall not be furnished after new style stop plates become available.

*APPLICATION TO APPARATUS IN THE FIELD:* New style stop plates should be used where required for proper operation. Old style stop plates should not be used on units equipped with TP153598 or TP153604 function pawls.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* All units equipped with a TP153598 and/or a TP153604 function pawl and stop plates shall be equipped with new style stop plates. Old style stop plates shall not be used with these function pawls.

## **TP153322 GUIDE ASSEMBLY**

*APPARATUS AFFECTED:* All 28-Type Typing Units and Sequence Selectors. All 35-Type Typing Units.

*OBJECT:* To reduce wear caused by the function levers.

*CHANGE:* The material of the guide assembly is to be changed from aluminum to steel and the area of impact with the function levers induction hardened to provide a wear resistant surface.

For location of parts see Bulletin 1149B, page 3-47, change 11; Bulletin 1160B, page 2-10, change 1; and Bulletin 1187B, page 4-29, change 1.

*IDENTIFICATION:* The new style guide will have a black oxide finish.

*INTERCHANGEABILITY:* New and old style parts are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be made as soon as manufacturing conditions permit. This is expected to be about August, 1965.

*W.E.CO. STOCK OF OLD STYLE PARTS:* Shall not be used after new style parts become available.

*APPLICATION TO APPARATUS IN THE FIELD:* It is not practicable to apply the new style parts in the field.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* All units shall be equipped with the new style parts if parts involved require replacement or if parts are disassembled for other reasons.

**TP157990, TP170004, TP196572 TRIP SHAFT SUPPORT BRACKETS**

*APPARATUS AFFECTED:* All 28-Type Typing Units and Sequence Selectors, all 35-Type Typing Units. TP157990, TP170004 and TP196572 Trip Shaft Support Brackets.

*OBJECT:* To reduce wear and breakage of the TP74701 clutch latch springs at the point of engagement with the TP153038 bushing used in the trip shaft support bracket.

*CHANGE:* The countersink in the TP153038 bushing has been increased so that the bushing will be flush with the surrounding area of the bracket.

For location of parts, see Bulletin 1187B, page 4-6, change 1; Bulletin 1149B, page 3-8, change 9; and Bulletin 1160B, page 2-2, change 1.

*IDENTIFICATION:* On new style parts the bushing is riveted flush. On old style parts the bushing protrudes about 0.030 inch above the surface of the bracket.

*INTERCHANGEABILITY:* New and old style trip shaft support brackets are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change is now in effect.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be used.

*APPLICATION TO APPARATUS IN THE FIELD:* Old style brackets giving satisfactory service need not be replaced.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* Units may be equipped with new or old style brackets.

## **TP150838 RETAINING RING**

*APPARATUS AFFECTED:* All 28- and 35-type Typing Units.

*OBJECT:* To add another slot for cable routing in order to accommodate the 150 WPM typing unit when it enters production.

*CHANGE:* The TP150838 retaining ring on the spacing drum is changed by adding an additional slot similar to the two existing slots. This slot shall be opposite the two existing slots and midway between the two holes in the retaining ring.

The TP150838 retaining ring is shown in Bulletins 1149B, page 3-24, change 10; and 1187B, page 4-17, original.

*IDENTIFICATION:* See "CHANGE".

*INTERCHANGEABILITY:* Old and new style retaining rings are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change will be made as soon as manufacturing conditions permit.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be furnished.

*APPLICATION TO APPARATUS IN THE FIELD:* It is not practicable to apply new style parts in the field.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* Units may be equipped with old or new style parts.

## **254M MAGNET COIL**

**APPARATUS AFFECTED:** All 28 Reperforator-Transmitter Units; all 28 Typing Units; all 28 Typing Reperforator Units; all 28 Sequence Selector Units; and 28D, 28F, and 28K Perforator-Transmitter-Bases.

**OBJECT:** To facilitate manufacture and provide a more durable coil that will be less susceptible to physical damage caused by handling.

**CHANGE:** The new style and the old style 254M coils are electrically the same. On the old style coils, the terminal lugs are in a horizontal position with respect to the coil flange and on the new style coils, the terminal lugs are in a vertical plane.

*Note:* When the old style coil is replaced by a new style coil, the terminals on the associated cable assembly shall be re-formed to conform to the new terminal lug position. This may be accomplished with a pair of pliers.

For location of the 254M coils, refer to the following parts Bulletins: 1149B, page 3-35, change 11; 1160B, page 2-4, change 1; 1167B, page 2-15, change 6; and 1172B, page 7, change 3.

**IDENTIFICATION:** See "CHANGE".

**INTERCHANGEABILITY:** The 254M old style and new style magnet coils are not individually interchangeable, but are interchangeable in pairs.

**CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:** The new style coils shall be furnished when manufacturing conditions permit and after the present supply of coils is exhausted. This is expected to be about June, 1965.

**W.E.CO. STOCK OF OLD STYLE PARTS:** The old style coils may be furnished until supply is exhausted.

**APPLICATION TO APPARATUS IN THE FIELD:** Old style coils giving satisfactory service need not be replaced.

**APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:** Units may be equipped with old or new style coils.

**TP152573 RETAINER**

*APPARATUS AFFECTED:* All 28 Typing Units; all 28 Sequence Selectors; all 35 Typing Units; TP152573 Retainer.

*OBJECT:* To improve the clamping action of the TP152573 retainer.

*CHANGE:* The 0.100-inch offset on the TP152573 retainer is decreased to a 0.065-inch offset. The hardness range is increased from Rockwell C40-46 to Rockwell C48-54.

The TP152573 retainer is shown in Bulletin 1149B; Section 573-115-800, issue 1, page 28; Bulletin 1160B, page 2-6, change 1; and in Bulletin 1187B, page 4-15, change 1.

*IDENTIFICATION:* The new style retainer has a bronze plate; the old style retainer has a black oxide finish. (Some older style retainers are nickel-plated.)

*INTERCHANGEABILITY:* New and old style parts are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change is expected to go into effect in the first quarter of 1965.

*W.E.CO. STOCK OF OLD STYLE PARTS:* Shall not be furnished after new style parts become available.

*APPLICATION TO APPARATUS IN THE FIELD:* Old style parts giving satisfactory service need not be replaced.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* All units shall be equipped with new style parts.

## TP159281 AND TP159284 PINIONS

*APPARATUS AFFECTED:* 28B-1, 28C-1, 28E-1 and 28F-1 Sets of Gears; TP159281 and TP159284 pinions.

*OBJECT:* To provide pinions with improved wear characteristics.

*CHANGE:* The molybdenum disulphide filler formerly used in the TP159281 nylon pinion (75 speed) and TP159284 nylon pinion (100 speed) has been removed.

*NOTE:* The TP159281 pinion is part of 28B-1 and 28E-1 sets of gears.

The TP159284 pinion is part of 28C-1 and 28F-1 sets of gears.

The pinions are shown in the following Bulletins:

### *TP159281 Pinion*

1149B, page 1-17, change 9  
1160B, page 1-3, change 1  
1167B, page 6-18, change 4  
1169B, page 1-44, change 9

### *TP159284 Pinion*

1149B, page 1-17, change 9  
1160B, page 1-3, change 1  
1167B, page 6-18, change 4  
1169B, page 1-44, change 9  
1187B, page 7-7, original

*IDENTIFICATION:* Old style TP159281 and TP159284 pinions have a dark gray appearance. New style TP159281 and TP159284 pinions have a milky white appearance.

*INTERCHANGEABILITY:* New and old style pinions are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be incorporated as soon as manufacturing conditions permit. This is expected to be about March, 1965.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be furnished.

*APPLICATION TO APPARATUS IN THE FIELD:* Old style parts giving satisfactory service need not be replaced.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* Units may be equipped with new or old style parts.

## **TP194052 STOP PLATE**

*APPARATUS AFFECTED:* 28B, 28C, 28F, 28G, 28M, 28M-1, 28M-2, 28N, 28N-1, 28N-2, 28P, 28R, 28S, 28T, 28U, 28W, 28AA, 28AC, 28AE, 28AH, 28AK, 28AL, 28AP, 28AS, 28AT, 28AU, 28LD, 28LE, and 28LF Typing Units; also TP154760 through TP154769, TP192706, TP197849 and TP197850 Modification Kits to provide vertical tabulation.

*OBJECT:* (a) To facilitate assembly.  
(b) To reduce the number of different parts stocked.

*CHANGE:* The TP160489 stop plate is replaced by a TP194052 stop plate.

The TP160489 stop plate is shown in Bulletin 1149B, page 3-78, change 9; Section 573-115-800, issue 1, page 89; and Specification 50,004S, issue 8.

*IDENTIFICATION:* Old style TP160489 stop plate has a closed oval. New style TP194052 stop plate has a slot in the oval.

*INTERCHANGEABILITY:* New and old style stop plates are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be incorporated as soon as manufacturing conditions permit. This is expected to be about June, 1965.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be used.

*APPLICATION TO APPARATUS IN THE FIELD:* Old style parts operating satisfactorily need not be changed.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* Units may be equipped with new or old style stop plates.



**TP151728 SPRING; TP150026 AND TP151640 SHOE LEVERS; TP129289, TP150028,  
TP150032, TP150033, TP154694, TP155047, TP157032, AND TP158182 DISCS**

*APPARATUS AFFECTED:* All 28-Type Teletypewriter Bases.

All 28-Type Typing Units.

All 28-Type Typing Reperforator Units.

28A, 28C, 28D, 28D-1, 28D-2, 28D-3, 28D-4, and 28D-6 Reperforator-Transmitter Sets.

All 28-Type Sequence Selector Units.

All 28-Type Perforator-Transmitter-Bases.

28B, 28C, 28E, 28F, 28G, 28G-1, 28H, 28H-1, 28H-2, 28H-3, 28H-4, 28H-5, and 28LA Transmitter-Distributor Units.

28A Receiving Selector.

28A, 28C, 28D, 28D-1, 28D-2, 28D-3, 28D-4, 28D-6, 28E, 28F, 28F-1, 28F-2, and 28G Reperforator-Transmitter Units.

28A, 28A-1, 28A-2, 28D, 28D-1, 28D-2, 28J, 28J-1, 28J-2, 28J-3, 28K, and 28L Distributors.

TP151728 Spring; TP150026 and TP151640 Shoe Levers; TP129289, TP150028, TP150032, TP150033, TP154694, TP155047, TP157032, and TP158182 Discs.

*OBJECT:* To prevent possible spring breakage.

*CHANGE:* The core hardness of the TP150026 and TP151640 clutch shoe levers has been changed from Rockwell C-60 to Rockwell C-30-45, and the finish changed from black-oxide to flash nickel.

The TP151728 spring associated with either the TP150026 or TP151640 shoe lever has been modified by placing a  $\pm 15$  degree relationship on the relative angular positions of the spring hook plains which are nominally 90 degrees apart.

The hardness of the case-hardened spring post which is part of the clutch discs listed below has been changed from Rockwell C-60 to Rockwell C-40 to C-50, and a 0.005 deep groove has been added.

The parts are shown in the following bulletins:

**TP150026 SHOE LEVER**

Bulletin 1149B	Page 1-11	Change 9
	Page 2-9	Change 11
	Page 3-19	Change 11
	Page 3-20	Change 9
Section 573-115-800	Pages 27 and 28	Issue 1
Bulletin 1159B	Page 2-4	Change 2
Bulletin 1160B	Page 2-6	Change 1
Bulletin 1161B	Page 2-12	Change 2

**SECTION 573-115-800.21**

Bulletin 1165B	Page 2-9	Change 4
	Page 2-10	Change 4
Bulletin 1167B	Page 2-4	Change 6
	Page 6-12	Change 4
Bulletin 1169B	Page 1-24	Change 7
	Page 4-22	Change 7
Bulletin 1170B	Page 2	
	Page 10	Change 2
Bulletin 1171B	Page 15	Change 1
	Page 16	Change 1
	Page 17	Change 1
Bulletin 1172B	Page 2	Change 3
Bulletin 1182B	Page 1-12	Original
	Page 1-13	Original
Bulletin 1185B	Page 3	Original

**TP151640 SHOE LEVER**

Bulletin 1149B	Page 3-20	Change 9
Bulletin 1160B	Page 2-6	Change 1
Bulletin 1167B	Page 2-2	Change 6
Bulletin 1172B	Page 2	Change 3
Bulletin 1185B	Page 3	Original
Section 573-115-800	Page 28	Issue 1

**TP151728 SPRING**

Bulletin 1149B	Page 1-11	Change 9
	Page 2-9	Change 11
	Page 3-19	Change 11
	Page 3-20	Change 9
Section 573-115-800	Pages 27 and 28	Issue 1
Bulletin 1159B	Page 2-4	Change 2
Bulletin 1160B	Page 2-6	Change 1
Bulletin 1161B	Page 2-12	Change 2
Bulletin 1165B	Page 2-9	Change 4
	Page 2-10	Change 4
Bulletin 1167B	Page 2-2	Change 6
	Page 2-4	Change 6
Bulletin 1169B	Page 1-24	Change 7
	Page 3-6	Change 6
	Page 3-34	Change 6
	Page 4-22	Change 7
Bulletin 1170B	Page 8	Change 2
	Page 10	Change 2

## TP151728 SPRING

## DISCS

Bulletin 1171B	Page 15	Change 1	
	Page 16	Change 1	
	Page 17	Change 1	
Bulletin 1172B	Page 2	Change 3	
Bulletin 1182B	Page 1-12	Original	
	Page 1-13	Original	
Bulletin 1185B	Page 3	Original	
Bulletin 1146B	Page 6	Original	Disc TP150028
	Page 27	Original	Disc TP150028
	Page 30	Original	Disc TP150032
	Page 30	Original	Disc TP150033
Bulletin 1149B	Page 3-21	Change 9	Disc TP150032
	Page 3-19	Change 11	Disc TP150033
	Page 1-11	Change 9	Disc TP154694
	Page 2-9	Change 11	Disc TP154694
	Page 3-19	Change 11	Disc TP154694
	Page 3-20	Change 9	Disc TP154694
	Page 3-20	Change 9	Disc TP155047
	Page 3-73	Change 9	Disc TP157032
Bulletin 1159B	Page 1-3	Change 2	Disc TP129289
	Page 2-4	Change 2	Disc TP154694
Bulletin 1160B	Page 2-6	Change 1	Disc TP154694
	Page 2-6	Change 1	Disc TP155047
Bulletin 1161B	Page 2-13	Change 2	Disc TP158182
	Page 2-12	Change 2	Disc TP154694
Bulletin 1166B	Page 2-11	Change 5	Disc TP158182
Bulletin 1167B	Page 6-12	Change 4	Disc TP150028
	Page 2-2	Change 6	Disc TP154694
	Page 2-4	Change 6	Disc TP154694
	Page 6-12	Change 4	Disc TP154694
Bulletin 1169	Page 1-24	Change 7	Disc TP154694
	Page 3-6	Change 6	Disc TP154694
	Page 3-34	Change 6	Disc TP154694
	Page 4-22	Change 7	Disc TP154694
	Page 2-6	Change 7	Disc TP158182
Bulletin 1170	Page 8	Change 2	Disc TP154694
	Page 10	Change 2	Disc TP154694
	Page 9	Change 2	Disc TP158182
	Page 11	Change 2	Disc TP158182
Bulletin 1171	Page 15	Change 1	Disc TP154694
	Page 16	Change 1	Disc TP154694
	Page 17	Change 1	Disc TP154694
Bulletin 1172	Page 2	Change 3	Disc TP154694
	Page 4	Change 3	Disc TP154694
	Page 3	Change 3	Disc TP158182
	Page 4	Change 3	Disc TP158182

*IDENTIFICATION:* See "CHANGE".

*INTERCHANGEABILITY:* New and old style parts are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be incorporated as soon as manufacturing conditions permit. This is expected to be about June, 1965.

*W.E.CO. STOCK OF OLD STYLE PARTS:* Shall not be used.

*APPLICATION TO APPARATUS IN THE FIELD:* Old style parts giving satisfactory service need not be replaced.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* All units shall be equipped with new style parts if parts involved require replacement or if parts are disassembled for other reasons.

## TP155614 COVER, TP311527 CLAMP AND TP125130 SCREW

*APPARATUS AFFECTED:* 28E, 28F, 28G, 28H, 28H-1, 28H-2, 28K, 28L, 28M, 28M-1, 28M-2, 28N, 2N-1, 2N-2, 28P, 28R, 28S, 28T, 28W, 28Y, 28AF, 28AK, 28AL and 28AM Typing Units; TP154741 Modification Kit; TP157260 Cable Assembly; and TP155614 Cover.

*OBJECT:* To provide a firmer anchor for the cable clamp associated with the TP155614 cover.

*CHANGE:* The TP155614 cover has been modified by eliminating the two slots in the 11/16-inch diameter hole and adding a slot, approximately 1/16 by 1/4 inch, to two sides of the cover to provide mounting facilities for a new mounting clamp.

The TP155766 cable clamp and two TP155723 screws associated with the old style TP155614 cover are replaced by a TP311527 cable clamp and two TP125130 screws.

The TP155614 cover, TP155766 cable clamp and TP155723 screws are shown in Bulletin 1149B, page 5-10, change 11; and Bulletin 1169B, page 5-35, change 8.

*IDENTIFICATION:* See "CHANGE". Also the end of the TP311527 cable clamp has a semicircle. The end of the TP155766 cable clamp is straight. The TP155723 screw is 4-48 x 1/2 inch. The TP125130 screw is 6-32 x 1/2 inch.

*INTERCHANGEABILITY:* Parts are not individually interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be incorporated as soon as manufacturing conditions permit. This is expected to be about May, 1965.

*W.E.CO. STOCK OF OLD STYLE PARTS:* The old style TP155614 cover and TP155766 cable clamp shall not be furnished after new style TP155614 cover and TP311527 clamp become available. The TP155723 screws may be used for other applications.

*APPLICATION TO APPARATUS IN THE FIELD:* Old style parts giving satisfactory service need not be replaced.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* Units may be equipped with new or old style parts. If parts involved require replacement or if parts are disassembled for other reasons, the new parts shall be incorporated.

## TP3606 NUT ON TP150755 STUD

*APPARATUS AFFECTED:* 28-type Typing Units.

*OBJECT:* To eliminate possible interference between the present TP3598 nut on the TP150755 stud and the TP119652 retaining ring which mounts the TP170064 lever to the TP170054 plate.

*CHANGE:* The TP3598 nut (6-40 by 3/32 inch thick) used to mount the TP150755 stud to the TP-170079 arm has been changed to a TP3606 nut (6-40 by 1/16 inch thick).

The TP3598 nut, TP150755 stud, and TP170079 arm are shown in Section 573-115-800, issue 1, page 38. The TP119652 retaining ring, TP170064 lever, and TP170054 plate are shown in Section 573-115-800, issue 1, page 37.

*IDENTIFICATION:* See "CHANGE".

*INTERCHANGEABILITY:* New and old style parts are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change is now in effect.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be furnished for other applications.

*APPLICATION TO APPARATUS IN THE FIELD:* Should be incorporated in all apparatus where required for proper operation.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* Units shall be equipped with new or old style parts unless disassembled in this area for other reasons.

## TP150649 SPACING WASHER

*APPARATUS AFFECTED:* All 28-type typing units and TP150649 Spacing Washer.

*OBJECT:* To facilitate manufacture by using a standard thickness raw material.

*CHANGE:* The thickness tolerance of the TP150649 washer (used in the line feed and platen mechanism) has been changed from  $0.032 \pm 0.001$  inch to  $0.032 \pm 0.0015$  inch.

The TP150649 washer is shown in Section 573-115-800, issue 1, page 22.

*IDENTIFICATION:* Old style TP150649 washer has a nickel-plated finish. New style TP150649 washer has a black oxide finish.

*INTERCHANGEABILITY:* New and old style washers are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be incorporated as soon as manufacturing conditions permit.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be used.

*APPLICATION TO APPARATUS IN THE FIELD:* There is no advantage in using a new style washer.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* Units may be equipped with new or old style washers.

## TP150235 TRANSFER SLIDE

*APPARATUS AFFECTED:* All 28 Typing Units.

*OBJECT:* To facilitate manufacture.

*CHANGE:* The TP150235 transfer slide is modified by adding an 0.187-inch hole.

For location of part, refer to Section 573-115-800, issue 1, page 36.

*IDENTIFICATION:* See "CHANGE".

*INTERCHANGEABILITY:* New and old style transfer slides are interchangeable.

*CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE:* This change shall be incorporated as soon as manufacturing conditions permit. This is expected to be about October, 1965.

*W.E.CO. STOCK OF OLD STYLE PARTS:* May be furnished.

*APPLICATION TO APPARATUS IN THE FIELD:* There is no advantage in making this change.

*APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS:* Units may be equipped with new or old style transfer slides.